

Appln. Serial No. 10/066,097
Amendment Dated May 24, 2007
Reply to Office Action Mailed February 27, 2007

RECEIVED
CENTRAL FAX CENTER
MAY 24 2007

CURRENT LISTING OF THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

- 1 1. (Previously Presented) A method for publication and discovery of e-services provided by
2 service provider organizations, the method executable in a system associated with a client
3 organization and that includes a discovery agent and a client agent, the method comprising:
4 employing, by the system, the discovery agent to find one or more prospective e-services
5 based on one or more search parameters, wherein e-services are published by corresponding
6 service provider organizations in respective e-service descriptions, and wherein finding the one
7 or more prospective e-services comprises matching the one or more search parameters with the
8 published e-service descriptions; and
9 utilizing, by the system, the client agent to connect to the one or more prospective
10 e-services by employing a protocol that is supported by the one or more service provider
11 organizations providing the one or more prospective e-services.
- 1 2. (Cancelled)
- 1 3. (Previously Presented) The method of claim 1, further comprising accessing the
2 e-service descriptions published at websites of corresponding service provider organizations.
- 1 4. (Previously Presented) The method of claim 1 wherein the one or more search
2 parameters include a description of an e-service by at least one of keywords, category, logical
3 forms and expressions.
- 1 5. (Previously Presented) The method of claim 1 wherein employing the protocol includes
2 employing a communication protocol and an invocation protocol.
- 1 6. (Previously Presented) The method of claim 1 wherein employing the protocol includes
2 employing one of HyperText Transfer Protocol (HTTP), File Transfer Protocol (FTP), and
3 Microsoft Message Queue Server (MSMQ).

Appln. Serial No. 10/066,097
Amendment Dated May 24, 2007
Reply to Office Action Mailed February 27, 2007

1 7. (Previously Presented) The method of claim 1 wherein matching the one or more search
2 parameters with the published e-service descriptions comprises matching the one or more search
3 parameters with the published e-service descriptions contained in an e-service data sheet.

1 8. (Previously Presented) The method of claim 1 wherein matching the one or more search
2 parameters with the published e-service descriptions comprises matching the one or more search
3 parameters with the published e-service descriptions contained in mark-up language documents.

1 9. (Previously Presented) The method of claim 1 wherein matching the one or more search
2 parameters with the published e-service descriptions comprises matching the one or more search
3 parameters with the published e-service descriptions contained in XML documents.

1 10. (Previously Presented) The method of claim 7 wherein each e-service data sheet includes
2 a service description, input schema name, output schema name, and protocols-supported field.

1 11. (Previously Presented) A computer associated with a client organization, the computer
2 comprising:
3 a processor; and
4 a discovery agent executable on the processor to:
5 receive one or more search parameters;
6 access e-service descriptions published at web servers of corresponding service
7 providers, wherein the e-service descriptions describe respective Internet-based commercial
8 services provided by corresponding service providers;
9 match the received one or more search parameters with the e-service descriptions
10 to identify one or more e-services satisfying the one or more search parameters; and
11 a client agent executable on the processor to connect to one or more web servers of
12 corresponding one or more service providers that provide the identified one or more e-services.

1 12. (Cancelled)

Appl. Serial No. 10/066,097
Amendment Dated May 24, 2007
Reply to Office Action Mailed February 27, 2007

1 13. (Previously Presented) The computer of claim 11 wherein the discovery agent and the
2 client agent are disposed in a system of one of the service providers.

1 14. (Previously Presented) The computer of claim 11, comprising a server containing the
2 discovery agent and the client agent, wherein the server is disposed in a location that is remote
3 from the client organization.

1 15. (Previously Presented) The computer of claim 11 wherein the discovery agent includes
2 a match unit for receiving the one or more search parameters and the e-service
3 descriptions, and based thereon for generating a first list of prospective services that meet the one
4 or more search parameters;
5 a semantic search unit for receiving the one or more search parameters and the e-service
6 descriptions, and based thereon for generating a second list of prospective services that meet the
7 one or more search parameters; and
8 a search result generator coupled to the match unit and semantic search unit for receiving
9 the first list of prospective services and the second list of prospective services and based thereon
10 for generating a final list of prospective services.

1 16. (Previously Presented) The computer of claim 15 wherein the match unit includes fuzzy
2 logic.

1 17. (Cancelled)

1 18. (Previously Presented) The computer of claim 11 wherein each e-service description is a
2 mark-up language document.

1 19. (Previously Presented) The computer of claim 18 wherein each e-service description is
2 an XML document.

Appl. Serial No. 10/066,097
Amendment Dated May 24, 2007
Reply to Office Action Mailed February 27, 2007

1 20. (Previously Presented) The computer of claim 11 wherein each e-service description
2 includes one of a service description, input schema name, output schema name, and protocols-
3 supported field.

1 21. (Previously Presented) The method of claim 1, wherein matching the one or more search
2 parameters with the published e-service descriptions comprises matching the one or more search
3 parameters that contain at least price and quantity parameters.

1 22. (Previously Presented) The method of claim 1, wherein matching the one or more search
2 parameters with the published e-service descriptions comprises matching the one or more search
3 parameters with the published e-service descriptions that describe Internet-delivered commercial
4 services.

1 23. (Previously Presented) The method of claim 1, wherein matching the one or more search
2 parameters to the published e-service descriptions comprises matching the one or more search
3 parameters using fuzzy matching logic in the discovery agent.

1 24. (Previously Presented) The method of claim 1, wherein matching the one or more search
2 parameters to the published e-service descriptions comprises matching the one or more search
3 parameters by selectively using one of fuzzy matching logic and clean matching logic in the
4 discovery agent, wherein the clean matching logic determines with certainty whether a match has
5 occurred, and the fuzzy matching logic determines a probability of whether a match has
6 occurred.

1 25. (Previously Presented) The method of claim 1, wherein the system associated with the
2 client organization and that includes the discovery agent and the client agent comprises a server
3 that is remote from the client organization.

1 26. (Previously Presented) The method of claim 1, further comprising receiving the one or
2 more search parameters in a predetermined form having plural fields that are filled by a user.

Appln. Serial No. 10/066,097
Amendment Dated May 24, 2007
Reply to Office Action Mailed February 27, 2007

- 1 27. (Previously Presented) The computer of claim 11, wherein the one or more search
- 2 parameters received by the discovery agent comprise at least price and quantity parameters.

- 1 28. (Previously Presented) The computer of claim 11, wherein the e-service descriptions
- 2 comprise e-service data sheets published by respective service providers.